

Fig. 1

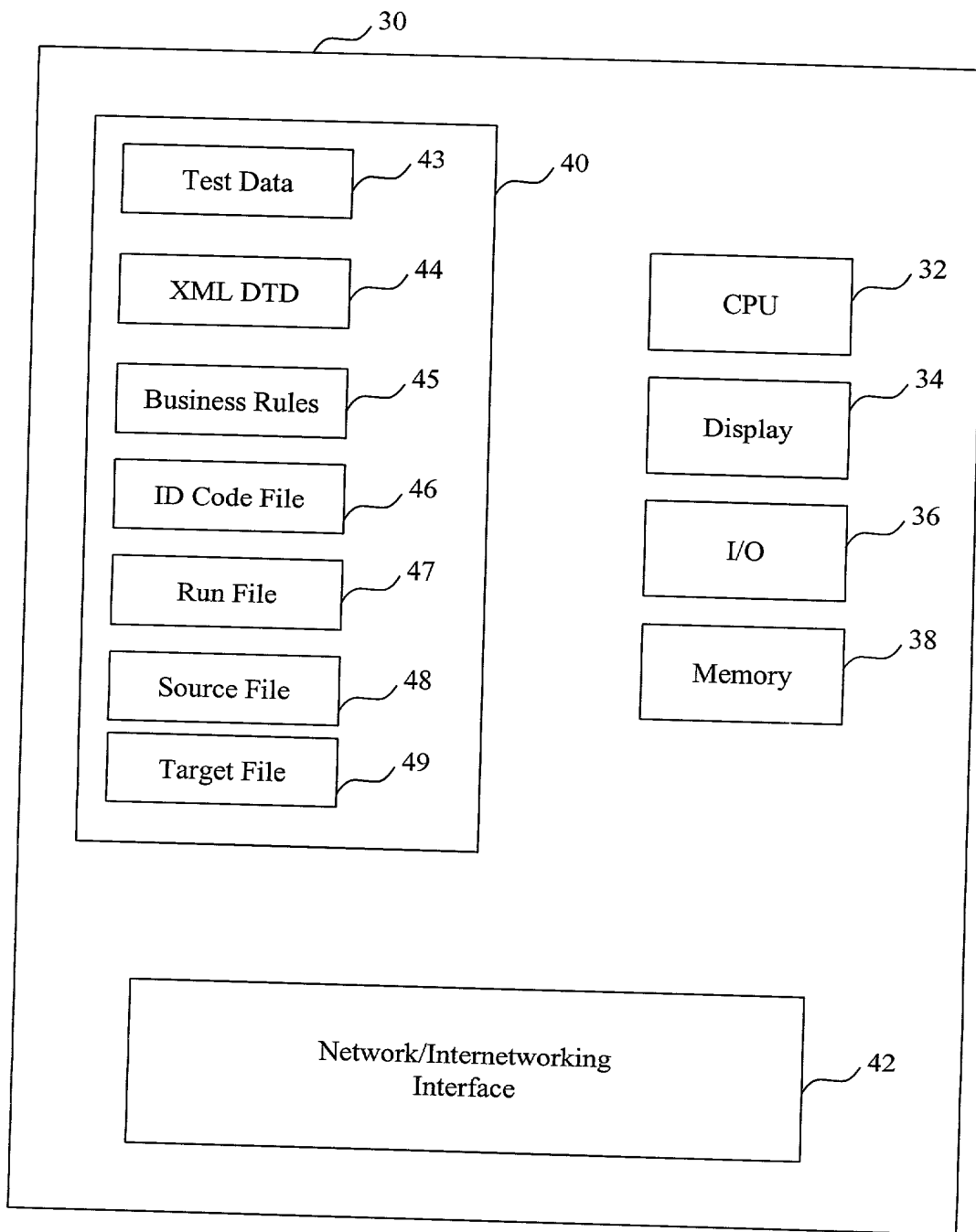


Fig. 2

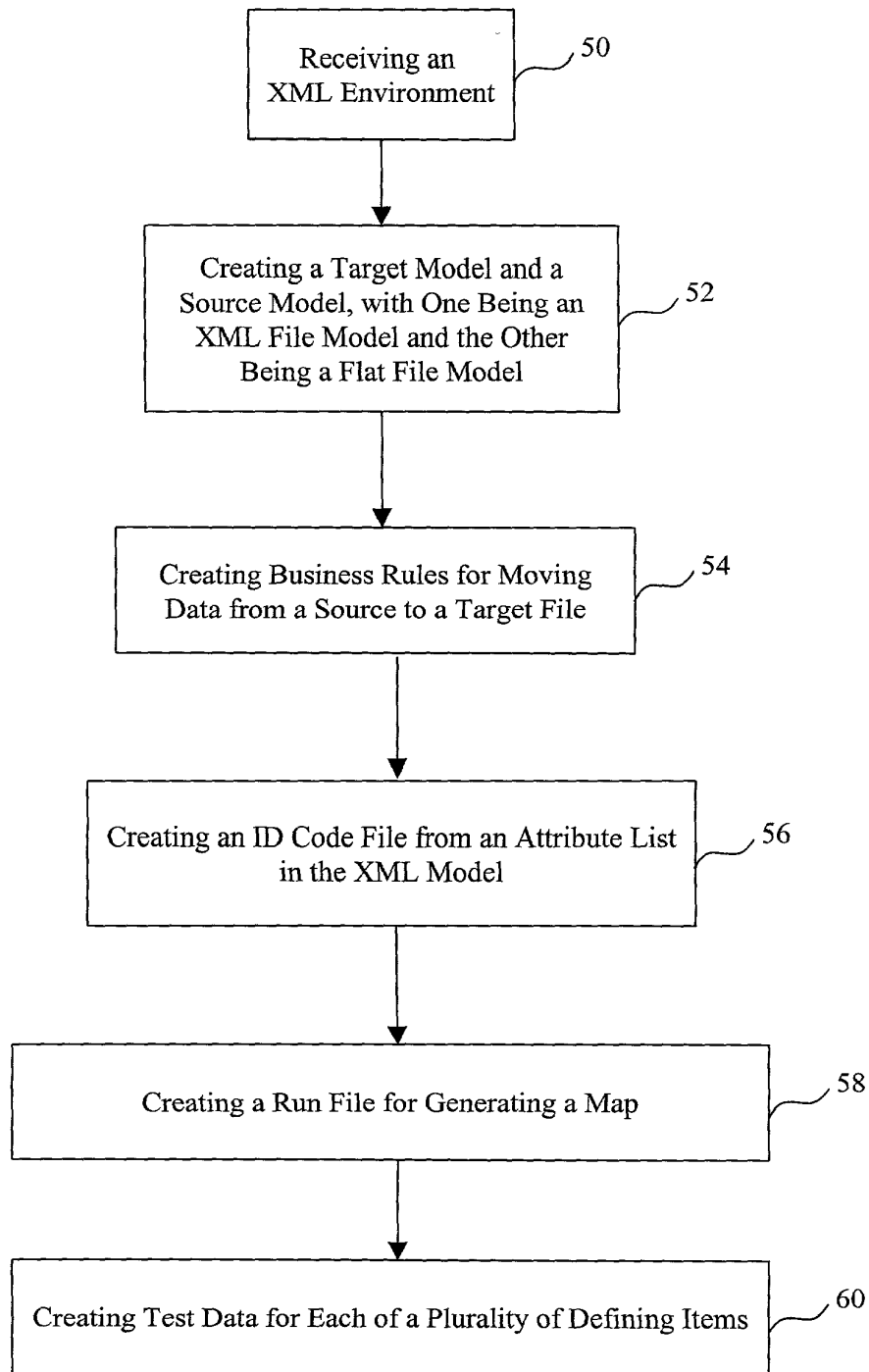


Fig. 3

This is a sample of the XML DTD

```
<!ELEMENT PurchaseOrder (HeaderInformation,  
DetailInformation+, ShippingInstructions)>  
<!ELEMENT HeaderInformation  
(CompanyName, CompanyAddress, CompanyState,  
CompanyZip, PurchaseOrderNumber,  
PurchaseOrderDate)>  
  
<!ELEMENT DetailInformation (LineItem+)>  
<!ELEMENT LineItem (LineNumber, QuantityOrdered,  
PartNumber, PartDescription)>  
  
<!ELEMENT ShippingInstructions (ShipDate, ShipDetails,  
ShipCancelDate)>  
  
<!ELEMENT CompanyName (#PCDATA)>  
<!ELEMENT CompanyAddress (#PCDATA)>  
<!ELEMENT CompanyCity (#PCDATA)>  
<!ELEMENT CompanyState (#PCDATA)>  
<!ELEMENT CompanyZip (#PCDATA)>  
<!ELEMENT PurchaseOrderNumber (#PCDATA)>  
<!ELEMENT PurchaseOrderDate (#PCDATA)>  
  
<!ELEMENT LineNumber (#PCDATA)>  
<!ELEMENT QuantityOrdered (#PCDATA)>  
<!ELEMENT PartNumber (#PCDATA)>  
<!ELEMENT PartDescription (#PCDATA)>  
  
<!ELEMENT ShipDate (#PCDATA)>  
<!ELEMENT ShipDetails (#PCDATA)>  
<!ELEMENT ShipCancelDate (#PCDATA)>
```

Fig. 4A

This is a sample of the XML document that follows the DTD

```
<?XML Version="1.0"?>
<PurchaseOrder>
  <HeaderInformation>
    <CompanyName>ACME Distributing</CompanyName>
    <CompanyAddress>123 Main Street</CompanyAddress>
    <CompanyCity>Washington</CompanyCity>
    <CompanyState>DC</CompanyState>
    <CompanyZip>20202</CompanyZip>
    <PurchaseOrderNumber>27015219</ PurchaseOrderNumber >
    <PurchaseOrderDate>08171999</ PurchaseOrderDate >
  </HeaderInformation>
  <DetailInformation>
    <LineItem>
      <LineNumber>1</LineNumber>
      <QuantityOrdered>12</QuantityOrdered>
      <PartNumber>3AB32</PartNumber>
      <PartDescription>Blue Suede Shoe</PartDescription>
    </LineItem>
    <LineItem>
      <LineNumber>2</LineNumber>
      <QuantityOrdered>100</QuantityOrdered>
      <PartNumber>46Q64</PartNumber>
      <PartDescription>Shoe Laces 36 inch black</PartDescription>
    </LineItem>
  </DetailInformation>
  <ShippingInstructions>
    <ShipDate>09011999</ShipDate>
    <ShipDetails>Deliver to Door #10</ShipDetails>
    <ShipCancelDate>10011999</ShipCancelDate>
  </ShippingInstructions>
</PurchaseOrder>
```

Fig. 4B

XML Msg Wizard

Enter the file name of the XML Msg or DTD or Schema
MY-XML-MSG.XML Browse

☒ Generate Complete Inbound map - XML to Flat-File
☐ Generate Complete Outbound map - Flat-File to XML
☐ None
Enter the map base name
MY-XML-MSG Browse

☒ Generate Source XML Msg Model
☒ Generate Target XML Msg Model
☐ None
Enter the file name of the output .MDL
Browse

☒ Generate Source XML Flat-File Model
☒ Generate Target XML Flat-File Model
☐ None
Enter the file name of the output .MDL
Browse

☒ Generate Sample Test Data
MY-XML-MSG.TXT Browse

Cancel Generate

Fig. 5

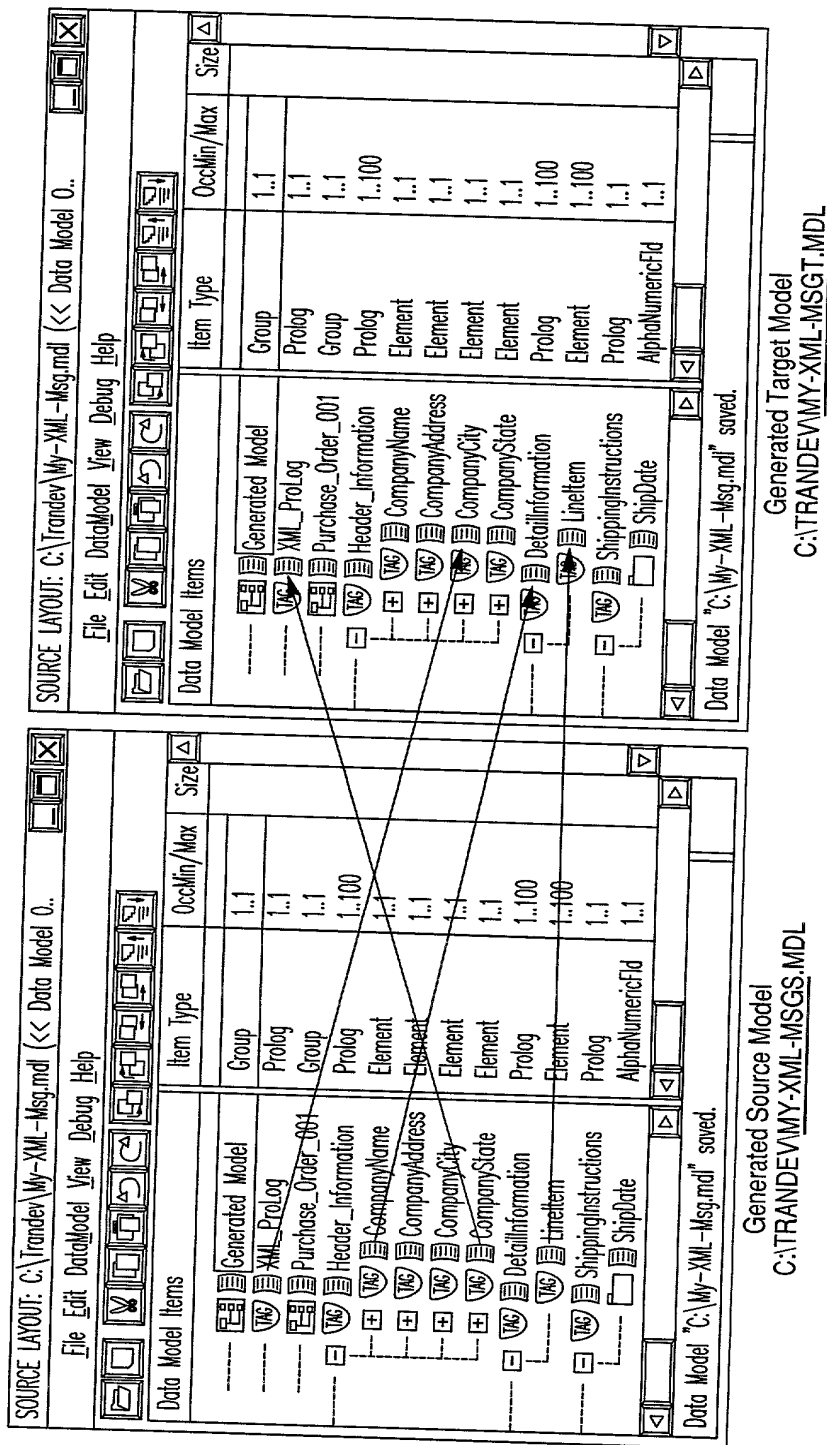


Fig. 6

Fig. 7

C:\TRANDEV\My-XML-Msg.ATT

File Help

Data

Input: C:\Trandev\My-XML-Msg.In

Output: C:\Trandev\My-XML-Msg.Out

Source

Model: C:\Trandev\My-XML-MsgS.MDL

Access: C:\Trandev\XMLAccess.ACC

Target

Model: C:\Trandev\My-XML-MsgT.MDL

Access: C:\Trandev\Fixed-File.ACC

Other Environment Variables

Name: Value:

Add Delete

Save Cancel

C:\TRANDEV\MY-XML-MSG.ATT

Fig. 8

(Fig. 4A)

1

```

<ELEMENT PurchaseOrder (HeaderInformation)
  DetailInformation+, ShippingInstructions>
<ELEMENT HeaderInformation
  (CompanyName, CompanyAddress, CompanyState,
  CompanyZip, PurchaseOrderNumber,
  PurchaseOrderDate)>

<ELEMENT DetailInformation (LineItem+)>
<ELEMENT LineItem (LineNumber, QuantityOrdered,
  PartNumber, PartDescription)>

<ELEMENT CompanyName (#PCDATA)>
<ELEMENT CompanyAddress (#PCDATA)>
<ELEMENT CompanyCity (#PCDATA)>
<ELEMENT CompanyState (#PCDATA)>
<ELEMENT CompanyZip (#PCDATA)>
<ELEMENT PurchaseOrderNumber (#PCDATA)>
<ELEMENT PurchaseOrderDate (#PCDATA)>

<ELEMENT LineNumber (#PCDATA)>
<ELEMENT QuantityOrdered (#PCDATA)>
<ELEMENT PartNumber (#PCDATA)>
<ELEMENT PartDescription (#PCDATA)>

<ELEMENT ShipDate (#PCDATA)>
<ELEMENT ShipDetails (#PCDATA)>
<ELEMENT ShipCancelDate (#PCDATA)>
  
```

C:\TRANDEV\XML-MSG.DTD De-Activated Box 3 & Box 4 (Grey'd Out)

(Fig. 5)

b XML Msg Wizard

2 Enter the file name of the input XML DTD
MY-XML-MSG.DTD [Browse]

☒ Generate Complete Inbound map - XML to Flat-File
☐ Generate Complete Outbound map - Flat-File to XML
☐ None

Enter the map base name
MY-XML-MSG [Browse]

☐ Generate Source XML Msg Model
☐ Generate Target XML Msg Model
☐ None

Enter the file name of the output .MDL [Browse]

☐ Generate Source XML Flat-File Model
☐ Generate Target XML Flat-File Model
☐ None

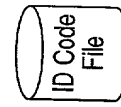
Enter the file name of the output .MDL [Browse]

☒ Generate Sample Test Data
MY-XML-MSG.TXT [Browse]

[Cancel] [Generate]

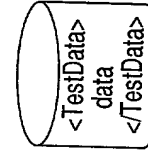
Fig. 9

To Fig. 9 cont.



6

Generated ID Code File
C:\TRANDEV\XML-MSG.IDS



7

Generated Test Data
C:\TRANDEV\XML-MSG.TXT

To Fig 9 cont.

To Fig. 9 cont.

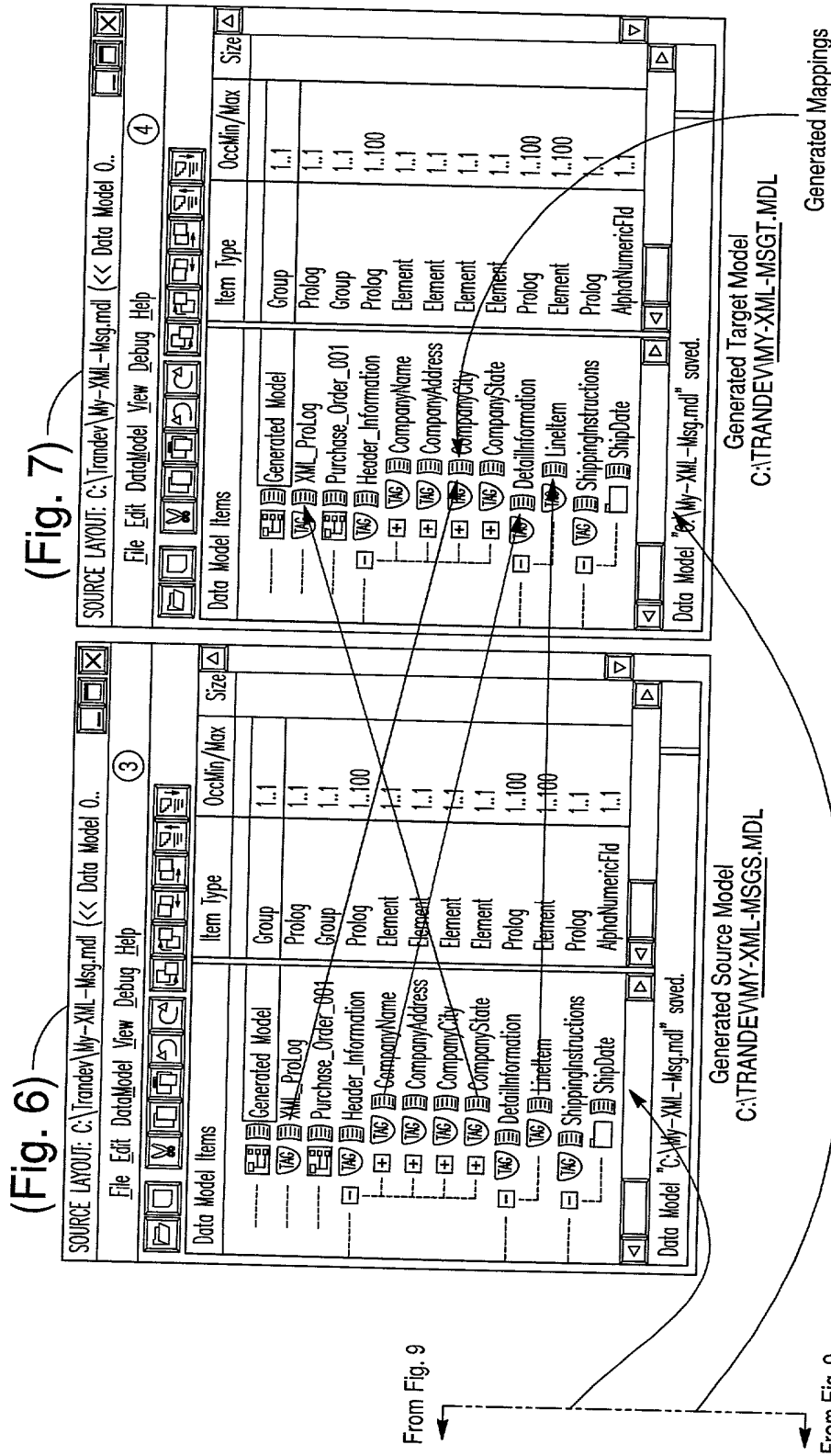


Fig. 9 (cont.)

From Fig 9

XML Message Wizard: Inbound
Create fully functional, run-able translation
Create New Map Component File
Create Source Inbound XML Message Model
Create Target Flat-File of XML Message Model
Create One-to-One mappings from Source to Target
Create Test Data

XML Message Wizard: Outbound
Create fully functional, run-able translation
Create New Map Component File
Create Source Inbound XML Message Model
Create Target Flat-File of XML Message Model
Create One-to-One mappings from Source to Target
Create Test Data

Fig. 9 (cont.)

C:\TRANDEV\My-XML-Msg.ATT

File Help

5

Data

Input: C:\Trandev\My-XML-Msg.In

Output: C:\Trandev\My-XML-Msg.Out

Source

Model: C:\Trandev\My-XML-MsgS.MDL

Access: C:\Trandev\XMLAccess.ACC

Target

Model: C:\Trandev\My-XML-MsgT.MDL

Access: C:\Trandev\Fixed-File.ACC

Other Environment Variables

Name: Value: C:\TRANDEV\MY-XML-MSG.ATT

Add Delete Save Cancel

(Fig. 8)